

06-25-01

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PTO/SB/05 (11-00)

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Approved for use through 10/31/2002. OMB 0651-0032

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**UTILITY  
PATENT APPLICATION  
TRANSMITTAL**

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No.

01827.0037.CPUS01

First Inventor

Donald Brian Eidson

Title

RATE N/N SYSTEMATIC, RECURSIVE  
CONVOLUTIONAL ENCODER AND  
CORRESPONDING DECODER

Express Mail Label No.

EL 711909745US

J-903 U.S. PTO  
09/887877

06/21/01

**APPLICATION ELEMENTS**

See MPEP chapter 600 concerning utility patent application contents.

ADDRESS TO:

Commissioner for Patents  
Box Patent Application  
Washington, DC 20231

1. ☒ Fee Transmittal Form (e.g. PTO/SB/17)  
(Submit an original, and a duplicate for fee processing)
2. ☐ Applicant claims small entity status.  
See 37 CFR 1.27
3. ☒ Specification [Total Pages **33**]  
(preferred arrangement set forth below)  
- Descriptive title of the Invention  
- Cross Reference to Related Applications  
- Statement Regarding Fed sponsored R & D  
- Reference to sequence listing, a table, or a  
computer program listing appendix  
- Background of the Invention  
- Brief Summary of the Invention  
- Brief Description of the Drawings (if filed)  
- Detailed Description  
- Claim(s)  
- Abstract of the Disclosure
4. ☒ Drawing(s) (35 U.S.C. §113) [Total Pages **24**]  
Oath or Declaration [Total Pages **3**]  
a. ☐ Newly executed (original or copy)  
b. ☒ Copy from a prior application (37 CFR 1.63(d))  
(for continuation/divisional with Box 17 completed)  
i. ☐ **DELETION OF INVENTOR(S)**  
Signed statement attached deleting inventor(s) named in the prior  
application, see 37 CFR 1.63(d)(2) and 1.33(b)
6. ☐ Application Data Sheet. See 37 CFR 1.76

7. ☐ CD-ROM or CD-R in duplicate, large table or Computer  
Program (Appendix)
8. ☐ Nucleotide and/or Amino Acid Sequence Submission  
(if applicable, all necessary)
- a. ☐ Computer Readable Form (CRF)
- b. ☐ Specification Sequence Listing on  
i. ☐ CD-ROM or CD-R (2 copies); or  
ii. ☐ paper
- c. ☐ Statements verifying identity of above copies

**ACCOMPANYING APPLICATION PARTS**

9. ☒ Assignment Papers (cover sheet & document(s))
10. ☐ 37 CFR 3.73(b) Statement  
(where there is an assignee) ☐ Power of Attorney
11. ☐ English Translation document (if applicable)
12. ☒ Information Disclosure Statement  
(IDS)/PTO-1449 ☐ Copies of IDS  
Citations
13. ☐ Preliminary Amendment
14. ☒ Return Receipt Postcard (MPEP 503)  
(Should be specifically itemized)
15. ☐ Certified Copy of Priority Document(s)  
(if foreign priority is claimed)
16. ☐ Request and Certification under 35 U.S.C. 122(b)(2)(B)(i) Applicant  
must attach form PTO/SB/35 or its equivalent.
17. ☐ Other

**18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76**☐ Continuation ☐ Divisional ☒ Continuation-in-part (CIP) of prior application No 09/602,690

Prior application information.

Examiner

Group / Art Unit: 2734

**For CONTINUATION OR DIVISIONAL APPS only:** The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. This incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.**19. CORRESPONDENCE ADDRESS**☒ Customer Number or Bar Code Label**27240**or ☐ Correspondence address below

Name	Robert C. Laurenson					
Address	Howrey Simon Arnold & White, LLP					
	301 Ravenswood Avenue, Box 34					
City	Menlo Park	State	CA	Zip Code	94025	
Country	USA	Telephone	(858) 622-5100	Fax	(650) 463-8400	

Name (Print/Type)	Robert C. Laurenson	Registration No. (Attorney/Agent)	34,206
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Signature		Date	June 21, 2001
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Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, D.C. 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Box Patent Application, Washington, D.C. 20231

# FEE TRANSMITTAL for FY 2001

Patent fees are subject to annual revision.

## Complete if known

Express Mail Label No.	EL 711909745US	Application Number	
TOTAL AMOUNT OF PAYMENT	\$2132.00	Filing Date	
		First Named Inventor	Donald Brian Eidson
		Examiner Name	
		Group Art Unit	
		Attorney Docket No.	01827.0037.CPUS01

### METHOD OF PAYMENT

1. ☐ The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to:

Deposit Acct. No. **08-3038**

Deposit Account Name **Howrey Simon Arnold & White, LLP**

☒ Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17

☐ Applicant claims small entity status. See CFR 1.27.

2. ☒ Payment Enclosed:

☐ Check ☒ Credit Card ☐ Money ☐ Other

### FEE CALCULATION

#### 1. BASIC FILING FEE

Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	Fee Paid
101	710	201	355	Utility filing fee	710.00
106	320	206	160	Design filing fee	
107	490	207	245	Plant filing fee	
108	710	208	355	Reissue filing fee	
150	214	75		Provisional filing fee	

SUBTOTAL (1) (\$ 710.00)

#### 2. EXTRA CLAIM FEES

Total Claims **84** -20\*\*= **64** x **18** = **1152.00**

Independent Claims **3** -3\*\*= **0** x **80** = **0.00**

Multiple Dependent **270** = **270.00**

Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description
103	18	203	9	Claims in excess of 20
102	80	202	40	Independent claims in excess of 3
104	270	204	135	Multiple dependent claim, if not paid
109	80	209	40	**Reissue independent claims over original patent
110	18	210	9	**Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) (\$ 1422.00)

\*\*or number previously paid, if greater. For Reissues, see above

### FEE CALCULATION (continued)

#### 3. ADDITIONAL FEES

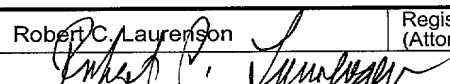
Fee Code	Large Entity Fee (\$)	Fee Code	Small Entity Fee (\$)	Fee Description	Fee Paid
105	130	205	65	Surcharge—late filing fee or oath	
127	50	227	25	Surcharge — late provisional filing fee or cover sheet	
139	130	139	130	Non-English specification	
147	2,520	147	2,520	For filing a request for <i>ex parte</i> reexamination	
112	920*	112	920*	Requesting publication of SIR prior to Examiner Action	
113	1,840*	113	1,840*	Requesting publication of SIR after Examiner Action	
115	110	215	55	Extension for reply within first month	
116	390	216	195	Extension for reply within second month	
117	890	217	445	Extension for reply within third month	
118	1,390	219	695	Extension for reply within fourth month	
128	1,890	228	945	Extension for reply within fifth month	
119	310	219	155	Notice of Appeal	
120	310	220	155	Filing a brief in support of an appeal	
121	270	221	135	Request for oral hearing	
138	1,510	138	1,510	Petition to institute a public use proceeding	
140	110	240	55	Petition to revive - unavoidable	
141	1,240	241	620	Petition to revive - unintentional	
142	1,240	242	620	Utility issue fee (or reissue)	
143	440	243	220	Design issue fee	
144	600	244	300	Plant issue fee	
122	130	122	130	Petitions to the Commissioner	
123	50	123	50	Petitions related to provisional applications	
126	240	126	180	Submission of Information Disclosure Statement	
581	40	581	40	Recording each patent assignment per property (times number of properties)	
146	710	246	355	Filing a submission after final rejection (37 CFR §1.129(a))	
149	710	249	355	For each additional invention to be examined (37 CFR § 1.129(b))	
179	710	279	355	Request for Continued Examination (RCE)	
169	900	169	900	Request for expedited examination of a design application	
Other fee (specify) _____					

\*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$ 0.00)

### SUBMITTED BY

Complete (if applicable)

Name (Print/Type)	Robert C. Laurenson	Registration No. (Attorney/Agent)	34,206	Telephone	(858) 622-5100
Signature		Date	June 21, 2001		

**WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.**

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**HOWREY SIMON ARNOLD & WHITE, LLP**  
301 Ravenswood Avenue, Box No. 34  
Menlo Park, CA 94025  
(858) 622-5100



**Box Patent Application**  
COMMISSIONER FOR PATENTS  
Washington, D.C. 20231

Re: New U.S. Non-Provisional Utility Patent Application  
**Continuation-in-Part of U.S. Application No. 09/602,690, filed June 23, 2000**  
For: RATE N/N SYSTEMATIC, RECURSIVE CONVOLUTIONAL  
ENCODER AND CORRESPONDING DECODER  
Inventors: Donald B. Eidson and Abraham Krieger  
Our Ref: 01827.0037.CPUS01

Sir:

Transmitted herewith for filing under 37 C.F.R. § 1.53(b) is a continuation-in-part application of prior Application No. 09/602,690, consisting of the following documents:

1. Utility Patent Application Transmittal Form (PTO/SB/05);
2. Patent Application consisting of 33 pages, to include 7 pages of claims and 1 page abstract;
3. Figures 1 through 17, consisting of 24 sheets;
4. Copy of executed Combined Declaration and Power of Attorney;
5. Copy of Recorded Assignment form;
6. Information Disclosure Statements and corresponding Forms PTO-1449;
7. Fee Transmittal Form (PTO/SB/17);
8. Credit Card Payment Form (PTO-2038); and
9. Return postcard.

It is respectfully requested that the enclosed return postcard be stamped with the filing date and unofficial application number and returned to this office as soon as possible.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. **08-3038** referencing docket number 01827.0037.CPUS01.

Respectfully submitted,

Robert C. Laurenson, Reg. No. 34,206

Date: June 21, 2001